GEOLOGICAL JOURNAL

CONTENTS

Volume 31, Issues Nos 1–4

Issue No. 1, March 1996

Age of the Alaşehir Graben (West Turkey) and its Tectonic Implications: G. Seyitoğlu and B. C. Scott 1

Aptian–Albian Tectonic Pattern of the Basque–Cantabrian Basin (Northern Spain): J. García-Mondéjar, L. M. Agirrezabala, A. Aranburu, P. A. Fernández-Mendiola, I. Gómez-Pérez, M. López-Horgue and I. Rosales 13

The Llandeilo (Ordovician) Series in the Core of the Tywi Anticline, Llanwrtyd, Powys, UK: R. Cave and A. W. A. Rushton 47

Interpreting the Borehole Water Chemistry of the Permo-Triassic Sandstone Aquifer of the Liverpool Area, UK: J. H. Tellam 61

Discussion of 'Brackish Water Faunas from the St Maughans Formation: the Old Red Sandstone Section at Ammons Hill, Hereford and Worcester, UK' by W. J. Barclay, P. A. Rathbone, D. E. White and J. B. Richardson: V. P. Wright and S. B. Marriott 89

Reply: W. J. Barclay and J. B. Richardson 92

BOOK REVIEWS 95

Issue No. 2, June 1996

Ordovician and Silurian Graptolite Assemblages from Cerro del Fuerte, San Juan Province, Argentina: B. Rickards, E. Brussa, B. Toro and G. Ortega . 101

Waulsortian Buildups of Waulsort, Belgium: J. A. E. Dehantschutter and A. Lees 123

Glacial Activity and Paraglacial Landsliding in the Devensian Lateglacial: Evidence from Craig Cerrig-gleisiad and Fan Dringarth, Fforest Fawr (Brecon Beacons), South Wales: R. A. Shakesby and J. A. Matthews 143

Pre-Permian of the North-east German Basin: T. McCann 159

U–Pb Geochronology of Late Palaeozoic Plutons, Cobequid Highlands, Nova Scotia, Canada: Evidence for Late Devonian Emplacement Adjacent to the Meguma–Avalon Terrane Boundary in the Canadian Appalachians: R. Doig, J. B. Murphy, G. Pe-Piper and D. W. Piper 179

Significance of Infiltrated Clays Within the Lower Permian Yellow Sands of North-east England: G. D. Price 189

BOOK REVIEWS 197

Issue No. 3, September 1996

Lithofacies and Stratigraphy of the Ordovician Guniutan Formation in its Type Area, China: J. Zhang 201

Tectonic Analysis of Progressive Secondary Deformation in the Hinge of a Major Caledonian Fold Nappe, North-western Ireland: G. I. Alsop. 217

Deep Marine Trace Fossil Assemblages from the Lower Carboniferous of Menorca, Balearic Islands, Western Mediterranean: P. J. Orr, M. J. Benton and N. H. Trewin 235

Brittle Tectonism in Relation to the Palaeogene Evolution of the Thulean/ NE Atlantic Domain: a Study in Ulster: L. Geoffroy, F. Bergerat and J. Angelier 259

Plio-Pleistocene Sedimentation in Coastal Grabens, North-east Rhodes, Greece: N.-M. Hanken, R. G. Bromley and J. Miller 271

BOOK REVIEWS 297

Issue No. 4, December 1996

'Boninitic' Clasts from the Mesozoic Olistosromes and Turbidites of Angelokastron (Argolis, Greece): S. Capedri, R. Grandi, A. Photiades and L. Toscani. 301

Fluid Fluxes During Low-temperature Alteration: Implications of Multi-style Alteration Assemblages from the Welsh Borderland, UK: R. Metcalf, R. E. Bevins and D. Robinson 323

Devonian Grapholites from Southwestern Europe: a Review with New Data: A. C. Lenx, M. Robardet, J. C. Gutiérrez-Marco and J. M Piçarra 349

Late Llandovery Thelodonts and Conodonts from the Kilbride Formation, Co. Galway, Western Ireland: R. J. Aldridge, S. Turner, G. Ll. Jones and D. A. T. Harper. 359

Upright Crinoids of the Thornton Reef, Wenlock (Silurian) of Illinois, USA: S. K. Donovan, R. K. Pickerill, D. G. Mikulic and J. Kluessendorf 369

Turbidites from the Clew Bay Complex, Ireland: Provenance Based on Petrography Geochemistry and Crustal Residence Values: J. Harkin, D. M. Williams, J. F. Menuge and J. S. Daly 379

Short Communication: An Abnormal Pygidium of the Tribolite *Brachymetopus ornatus* Woodward from the Lower Carboniferous of Derbyshire: A. W. Owen and J. W. Tilsley 389

Reprint of Plio-Pleistocene Sedimentation in Coastal Grabens, North-East Rhodes, Greece: N.-M. Hanken, R. G. Bromley and J. Miller 393

BOOK REVIEWS 419

AUTHOR INDEX 423

KEYWORD INDEX 424